

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG03/00074

A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. ⁷ : H01L 29/15, 33/00, H01S 5/34		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Int. Cl. ⁷ : H01L, H01S		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: (bandgap? or (band (W) gap?) or (transition (W) energy)) (s) (tune? or tuning), intermix+ or (inter (W) mix+) or interdiffus+ or diffus+, anneal+ or ((therm+ or heat+) (S) treat+), quantum or tunnel+, heterostructure? or (quantum (W) well?)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2358281 A (SHARP KABUSHIKI KAISHA) 18 July 2001 Whole document	
A	US 2002/0003918 A1 (OOI et al.) 10 January 2002 Whole document	
A	US 2002/0004253 A1 (OOI et al.) 10 January 2002 Whole document	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 12 June 2003		Date of mailing of the international search report 19 JUN 2003
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer RAJEEV DESHMUKH Telephone No : (02) 6283 2145

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/0041379 A1 (SAKATA) 15 November 2001 Whole document	
P, A	GB 2369492 A (KAMELIAN LIMITED) 29 May 2002 Whole document	
A	US 4751194 A (CIBERT et al.) 14 June 1988 Whole document	
A	CA 2331567 A1 (NATIONAL RESEARCH COUNCIL OF CANADA) 1 March 2002 Whole document	
A	US 6238944 B1 (FLOYD) 29 May 2001 Whole document	
A	US 6027989 A (POOLE et al.) 22 February 2000 Whole document	
A	US 5238868 A (ELMAN et al.) 24 August 1993 Whole document	
A	US 5395793 A (CHARBONNEAU et al.) 7 March 1995 Whole document	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG03/00074

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
GB	2358281	NONE			
US	2002003918	AU	200135830	AU	200135836
		CA	2398301	CA	2398359
		EP	1262002	US	2002004253
		WO	200167568	WO	200167499
				WO	200167569
US	2002004253	AU	200135830	AU	200135836
		CA	2398301	CA	2398359
		EP	1262002	US	2002003918
		WO	200167568	WO	200167499
				WO	200167569
US	2001041379	JP	2000101187		
GB	2369492	AU	200218398	US	2002080844
				WO	200245221
US	4751194	EP	251578	JP	63010517
CA	2331567	US	6514784	US	2003096509
US	6238944	NONE			
US	6027989	CA	2212751	EP	812485
				WO	9627226
US	5238868	CA	2031090	EP	429979
				JP	3270244
US	5395793	CA	2140619	EP	660380
END OF ANNEX					